

SEQUENCE LISTING

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<120> MEKK1-INTERACTING FHA PROTEIN

<130> A3233

<140> 09/744,125
<141> 2001-01-19

<150> PCT/EP99/05142
<151> 1999-07-21

<150> 60/093,590
<151> 1998-07-21

<160> 16

<170> PatentIn version 3.0

<210> 1
<211> 1553
<212> DNA
<213> Homo sapiens

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gccccaaaggg gaccaagtgc tgaacttctc tgatgcagag gacctgattt atgacagtaa 660
gctcaaggac atgcgagatg aggtccttgg acatgagctg atggtggctg accggcgcca 720
gaagcgagag attcggcagc tggaacagga actgcataag tggcagggtgc tagtggacag 780
catcacaggg atgagctctc cggacttcga caaccagaca ctggcagtgc tgcggggccg 840
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ccagatttat	gtggacctgt	ctctggaggg	tccggcctgg	aagatataccc	ggaaacaagg	960
tgtcatcaag	ctgaagaaca	acggtgattt	cttcattgcc	aatgagggtc	gacggccat	1020
ctacatcgat	ggacggccgg	tgctctgtgg	ctccaaatgg	cgcctcagca	acaactctgt	1080
ggtggagatc	gccagcctgc	gattcgtctt	ccttatcaac	caggacactca	ttgcccctat	1140
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agggctggcc	tttgtgaagc	cagcagaggc	tgagaacctc	aggctccct	agatccagag	1380
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accttcactc	ctgtgtctcc	agctgatttag	cctcagactc	ttcttttatt	gtttttcttt	1500
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<210> 2
 <211> 390
 <212> PRT
 <213> Homo sapiens

<400> 2

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Pro	Ser	Ser	Ser	Glu	Lys	Lys	Val	Ser	Lys	Ala	Pro	Ser	Thr	Pro	
				20			25						30		
Val	Pro	Pro	Ser	Pro	Ala	Pro	Gly	Leu	Thr	Lys	Arg	Val	Lys		
				35			40			45					
Lys	Ser	Lys	Gln	Pro	Leu	Gln	Val	Thr	Lys	Asp	Leu	Gly	Arg	Trp	Lys
				50			55			60					
Pro	Ala	Asn	Asp	Leu	Leu	Ile	Asn	Ala	Val	Leu	Gln	Thr	Asn	Asp	
	65			70				75					80		
Leu	Thr	Ser	Val	His	Leu	Gly	Val	Lys	Phe	Ser	Cys	Arg	Phe	Thr	Leu
				85			90					95			
Arg	Glu	Val	Gln	Glu	Arg	Trp	Tyr	Ala	Leu	Tyr	Asp	Pro	Val	Ile	
				100			105			110					
Ser	Lys	Leu	Ala	Cys	Gln	Ala	Met	Arg	Gln	Leu	His	Pro	Glu	Ala	Ile
				115			120			125					
Ala	Ala	Ile	Gln	Ser	Lys	Ala	Leu	Phe	Ser	Lys	Ala	Glu	Glu	Gln	Leu
				130			135			140					
Leu	Ser	Lys	Val	Gly	Ser	Thr	Ser	Gln	Pro	Thr	Leu	Glu	Thr	Phe	Gln
	145				150				155		160				

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Asp Leu Leu His Arg His Pro Asp Ala Phe Tyr Leu Ala Arg Thr Ala
165 170 175

Lys Ala Leu Gln Ala His Trp Gln Leu Met Lys Gln Tyr Tyr Leu Leu
180 185 190

Glu Asp Gln Thr Val Gln Pro Leu Pro Lys Gly Asp Gln Val Leu Asn
195 200 205

Phe Ser Asp Ala Glu Asp Leu Ile Asp Asp Ser Lys Leu Lys Asp Met
210 215 220

Arg Asp Glu Val Leu Glu His Glu Leu Met Val Ala Asp Arg Arg Gln
225 230 235 240

Lys Arg Glu Ile Arg Gln Leu Glu Gln Glu Leu His Lys Trp Gln Val
245 250 255

Leu Val Asp Ser Ile Thr Gly Met Ser Ser Pro Asp Phe Asp Asn Gln
260 265 270

Thr Leu Ala Val Leu Arg Gly Arg Met Val Arg Tyr Leu Met Arg Ser
275 280 285

Arg Glu Ile Thr Leu Gly Arg Ala Thr Lys Asp Asn Gln Ile Asp Val
290 295 300

Asp Leu Ser Leu Glu Gly Pro Ala Trp Lys Ile Ser Arg Lys Gln Gly
305 310 315 320

Val Ile Lys Leu Lys Asn Asn Gly Asp Phe Phe Ile Ala Asn Glu Gly
325 330 335

Arg Arg Pro Ile Tyr Ile Asp Gly Arg Pro Val Leu Cys Gly Ser Lys
340 345 350

Trp Arg Leu Ser Asn Asn Ser Val Val Glu Ile Ala Ser Leu Arg Phe
355 360 365

Val Phe Leu Ile Asn Gln Asp Leu Ile Ala Leu Ile Arg Ala Glu Ala
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Ala Lys Ile Thr Pro Gln
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<210> 3
<211> 669
<212> DNA
<213> Artificial

<220>
<223> Sequence of the insert of the plasmid pCM524

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ttttgttca aagaacgaat ttctgttaaa taaagttata gtagctattg taacaaataa 120

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atcctcaaat atgagtgggtt taacatttat ataaaagtcaa aaacataggt taccaattag	180
ctgggagctc tcatccaagt ggtgattcag taatccaggc tccttcatt ttgtggctcc	240
tctatattca acatataact actgaagtca ttgctgacag cagcatggaa aatcccagta	300
ggaattttt tatggataa ccttggaaagt attgcccac acttcctcct aaattctatt	360
gttcagaaaat cagacacaaaat atctcactta agcaaggaag cctgaaaaat gtagtagaac	420
tgtgtgatta ggagaaagta atgggtttgg tgagtagtca ttagtatctc tcacattggg	480
agaaatggct ttttatatgt ttttaagaaa caaattttgt tattttctc tccattggct	540
ccattgcccc agcaaagtag tagaacaaaa ataatatatt taaaattta acattatata	600
ttaatgataa tgcttaaaca gttgttattta cctgtttcaa aaagaaaaaaa aaaaaaaaaa	660
aaactcgag	669

<210> 4

<211> 128

<212> PRT

<213> Artificial

<220>

<223> deduced amino acid sequence of the insert of the plasmid pCM524

<400> 4

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Leu	Gln	Glu	Val	Leu	Glu	Arg	Glu	Arg	Arg	Glu	Leu	Glu	Lys	Leu	Tyr
			20			25						30			

Gln	Glu	Arg	Lys	Met	Ile	Glu	Glu	Ser	Leu	Lys	Ile	Lys	Ile	Lys	Lys
			35			40					45				

Glu	Leu	Glu	Met	Glu	Asn	Glu	Leu	Glu	Met	Ser	Asn	Gln	Glu	Ile	Lys
			50			55					60				

Asp	Lys	Ser	Ala	His	Ser	Glu	Asn	Pro	Leu	Glu	Lys	Tyr	Met	Lys	Ile
			65			70					75			80	

Ile	Gln	Gln	Glu	Gln	Asp	Gln	Glu	Ser	Ala	Asp	Lys	Ser	Ser	Lys	Lys
									85		90			95	

Met	Val	Gln	Glu	Gly	Ser	Leu	Val	Asp	Thr	Leu	Gln	Ser	Ser	Asp	Lys
								100		105			110		

Val	Glu	Ser	Leu	Thr	Gly	Phe	Ser	His	Glu	Glu	Leu	Asp	Asp	Ser	Trp
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<210> 5

<211> 669

<212> DNA

A3233.ST25

<213> Artificial

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<223> Insert of plasmid pCM482

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atcctcaaat	atgagtggtt	taacatttat	ataaaagtcaa	aaacataggt	taccaattag	180
ctgggagctc	tcatccaagt	ggtgattcag	taatccaggc	tccttcattt	ttgtggctcc	240
tctatattca	acatataact	actgaagtca	ttgctgacag	cagcatggaa	aatcccagta	300
ggaatttttt	tatggataa	ccttggaaagt	attgcccac	acttcctcct	aaattctatt	360
gttcagaaat	cagacacaaa	atctcactta	agcaaggaag	cctgaaaaat	gtagtagaac	420
tgtgtgatta	ggagaaaagta	atgggtttgg	tgagtagtacgt	ttagtatctc	tcacattggg	480
agaaaatggct	ttttatatgt	tttaagaaa	caaattttgt	tatcttcctc	tccattggct	540
ccattgcccc	agcaaagtag	tagaacaaaa	ataatataatt	ttaaaattta	acattatata	600
ttaatgataa	tgcttaaaca	gttgttattta	cctgttcaa	aaagaaaaaa	aaaaaaaaaa	660
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<210> 6

<211> 50

<212> PRT

<213> Artificial

<220>

<223> Deduced amino acid sequence of insert of plasmid pCM482

<400> 6

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Trp	Gln	Val	Phe	Phe	Val	Ser	Lys	Asn	Glu	Phe	Leu	Leu	Asn	Lys	Val
								20				25		30	

Ile	Val	Ala	Ile	Val	Thr	Asn	Lys	Ser	Ser	Asn	Met	Ser	Gly	Leu	Thr
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Phe Ile

50

<210> 7

<211> 1914

<212> DNA

<213> Murinae gen. sp.

<400> 7

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acctggtcag aatccttgga tgagcctgtg ggaccgttcc tcctagcccg gtggtttggaa	120
accagtggct ttgggactgt aagaggatgg acaaagattc tcaggggctg ctagattcat	180
ccctgatggc atcaggcact gccagccgct cagaggatga ggagtcactg gcagggcaga	240
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cccctggact caccaagcgt gtgaagaaga gtaaacagcc acttcaggtg accaaggatc	540
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agaagcgaga gattcggcag ctggAACAGG aactgcataa gtggcaggtg ctgtggaca	1140
gcatcacagg catgagctct ccggacttcg acaaccagac actggcagtg ctgcggggcc	1200
gcatggtgcg gtacctgatg cgctcgctg agatcaccct gggcagagca accaaggata	1260
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A3233.ST25

caccttcact cctgtgtctc cagctgatta gcctcagact cttcttttat tgttttctt 1860
 ttgtaaataa aaagcaccag gttccaaagt aaaaaaaaaa aaaaaaaaaact cgag 1914

<210> 8
 <211> 462
 <212> PRT
 <213> Murinae gen. sp.

<400> 8

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 20 25 30

Arg Ala Ser Ser Gln Ala Leu Gly Thr Ile Pro Lys Arg Arg Ser Ser
 35 40 45

Ser Arg Phe Ile Lys Arg Lys Lys Phe Asp Asp Glu Leu Val Glu Ser
 50 55 60

Ser Leu Ala Lys Ser Ser Thr Arg Ala Lys Gly Ala Ser Gly Val Glu
 65 70 75 80

Pro Gly Arg Cys Ser Gly Ser Glu Pro Ser Ser Ser Glu Lys Lys Lys
 85 90 95

Val Ser Lys Ala Pro Ser Thr Pro Val Pro Pro Ser Pro Ala Pro Ala
 100 105 110

Pro Gly Leu Thr Lys Arg Val Lys Lys Ser Lys Gln Pro Leu Gln Val
 115 120 125

Thr Lys Asp Leu Gly Arg Trp Lys Pro Ala Asp Asp Leu Leu Leu Ile
 130 135 140

Asn Ala Val Leu Gln Thr Asn Asp Leu Thr Ser Val His Leu Gly Val
 145 150 155 160

Lys Phe Ser Cys Arg Phe Thr Leu Arg Glu Val Gln Glu Arg Trp Tyr
 165 170 175

Ala Leu Leu Tyr Asp Pro Val Ile Ser Lys Leu Ala Cys Gln Ala Met
 180 185 190

Arg Gln Leu His Pro Glu Ala Ile Ala Ala Ile Gln Ser Lys Ala Leu
 195 200 205

Phe Ser Lys Ala Glu Glu Gln Leu Leu Ser Lys Val Gly Ser Thr Ser
 210 215 220

Gln Pro Thr Leu Glu Thr Phe Gln Asp Leu Leu His Arg His Pro Asp
 225 230 235 240

Ala Phe Tyr Leu Ala Arg Thr Ala Lys Ala Leu Gln Ala His Trp Gln

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245

250

255

Leu Met Lys Gln Tyr Tyr Leu Leu Glu Asp Gln Thr Val Gln Pro Leu
 260 265 270

Pro Lys Gly Asp Gln Val Leu Asn Phe Ser Asp Ala Glu Asp Leu Ile
 275 280 285

Asp Asp Ser Lys Leu Lys Asp Met Arg Asp Glu Val Leu Glu His Glu
 290 295 300

Leu Met Val Ala Asp Arg Arg Gln Lys Arg Glu Ile Arg Gln Leu Glu
 305 310 315 320

Gln Glu Leu His Lys Trp Gln Val Leu Val Asp Ser Ile Thr Gly Met
 325 330 335

Ser Ser Pro Asp Phe Asp Asn Gln Thr Leu Ala Val Leu Arg Gly Arg
 340 345 350

Met Val Arg Tyr Leu Met Arg Ser Arg Glu Ile Thr Leu Gly Arg Ala
 355 360 365

Thr Lys Asp Asn Gln Ile Asp Val Asp Leu Ser Leu Glu Gly Pro Ala
 370 375 380

Trp Lys Ile Ser Arg Lys Gln Gly Val Ile Lys Leu Lys Asn Asn Gly
 385 390 395 400

Asp Phe Phe Ile Ala Asn Glu Gly Arg Arg Pro Ile Tyr Ile Asp Gly
 405 410 415

Arg Pro Val Leu Cys Gly Ser Lys Trp Arg Leu Ser Asn Asn Ser Val
 420 425 430

Val Glu Ile Ala Ser Leu Arg Phe Val Phe Leu Ile Asn Gln Asp Leu
 435 440 445

Ile Ala Leu Ile Arg Ala Glu Ala Ala Lys Ile Thr Pro Gln
 450 455 460

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<213> Artificial

<220>

<223> primer

<400> 9

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<210> 10

<211> 18

<212> DNA

<213> Artificial

<220>

A3233.ST25

<223> Primer

<400> 10

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18

<210> 11

<211> 26

<212> DNA

<213> Artificial

<220>

<223> primer

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<212> DNA

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56

<210> 13

<211> 56

<212> DNA

<213> Artificial

<220>

<223> primer

<400> 13

gatcctcggag agaattccag gtcctcctcg gagatcagct tctgctccat ggtgga

56

<210> 14

<211> 26

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<223> primer

<400> 14

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26

<210> 15

<211> 53

<212> DNA

<213> Artificial

A3233.ST25

<220>

<223> primer

<400> 15

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53

<210> 16

<211> 53

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53